

PT senescence-induced deoxyhypusine synthase and eIF-5a, useful for
 PT inhibiting senescence in a plant when introduced in reverse orientation
 PT into the genome of the plant -

PS Claim 5; Fig 13; 135pp; English.

CC The present sequence is the coding sequence for tomato eukaryotic
 CC Initiation factor 5A (eIF-5A). The eIF-5A coding sequence, when
 CC introduced into a plant cell in reverse orientation, inhibits expression
 CC of the endogenous eIF-5A gene. The present sequence is useful for
 CC altering age-related senescence and/or environmental stress-related
 CC senescence, for inhibiting seed aging and for increasing seed yield in a
 CC plant. In addition, the inhibition of senescence in a plant results in
 CC increased resistance of the plant to environmental stress-induced and/or
 CC pathogen-induced senescence, increased plant biomass, delayed fruit
 CC softening and spoilage.

SQ Sequence 780 BP; 253 A; 141 C; 171 G; 215 T; 0 other;

Query Match 100.0%; Score 780; DB 22; Length 780;
 Best Local Similarity 100.0%; Pred. No. 1.2e-194;
 Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 aagaatcctagagagaagaagaatcctcagagagagaagacatgctcgagcagaagac 60
 DB 1 aagaatcctcagagagagaagaagaatcctcagagagagaagacatgctcgagcagaagac 60
 OY 61 cattttgagtcagaagcagatgctgctgctcctcaaaacttccacagcagctggaac 120
 DB 61 cattttgagtcagaagcagatgctgctgctcctcaaaacttccacagcagctggaac 120
 OY 121 atccgtaagaatggtatcatcgtatcaaaagccgctccgcaaggtttgaggtccc 180
 DB 121 atccgtaagaatggtatcatcgtatcaaaagccgctccgcaaggtttgaggtccc 180
 OY 181 acttcaaaaactggaacacacgacatgctaaatgctctgtggaatgacatttc 240
 DB 181 acttcaaaaactggaacacacgacatgctaaatgctctgtggaatgacatttc 240
 OY 241 aatggaagaagaactggaagatcgttcgctccctccacatgtaatgacacatgt 300
 DB 241 aatggaagaagaactggaagatcgttcgctccctccacatgtaatgacacatgt 300
 OY 301 aacgtaacgactatcagctgattgatatctcgaagatggttttctcaacttctact 360
 DB 301 aacgtaacgactatcagctgattgatatctcgaagatggttttctcaacttctact 360
 OY 361 gaaatggaacacacgaagatgacatcagctcccccagatgaatatctgtcgaagcag 420
 DB 361 gaaatggaacacacgaagatgacatcagctcccccagatgaatatctgtcgaagcag 420
 OY 421 gtttaagaatggttccaggaagaagaatcgttggtgctgtctatgtcctcgatgggc 480
 DB 421 gtttaagaatggttccaggaagaagaatcgttggtgctgtctatgtcctcgatgggc 480
 OY 481 gaaagcagatataacgcgcttaagaagatgctgtaaccaagaatagtaagtaatgacgcgc 540
 DB 481 gaaagcagatataacgcgcttaagaagatgctgtaaccaagaatagtaagtaatgacgcgc 540
 OY 541 ataatacctgcgcaaaagctttaagaatataatcctaatgtgtaacttgaatacact 600
 DB 541 ataatacctgcgcaaaagctttaagaatataatcctaatgtgtaacttgaatacact 600
 OY 601 agattataaactgtgttatttgacatgttcaaaaagaagaagaactgctgtatag 660
 DB 601 agattataaactgtgttatttgacatgttcaaaaagaagaagaactgctgtatag 660
 OY 661 cttagagaagaatgctgttgaagcttttgacagcaaatgtaactgtggaatatctac 720
 DB 661 cttagagaagaatgctgttgaagcttttgacagcaaatgtaactgtggaatatctac 720
 OY 721 ttttttttttggtaaaatacgtctgtttaaigtlttgcaaaaaaaataaaaaaa 780

DB 721 ttttttttttggtaaaatacgtctgtttaaigtlttgcaaaaaaaataaaaaaa 780

RESULT 2

ID AAF32056 standard; cDNA; 812 BP.

AC AAF32056;

DT 10-APR-2001 (first entry)

DE Carnation eIF-5A coding sequence.

KW eIF-5A; eukaryotic initiation factor 5A; senescence inhibition;
 carnation; ss.

OS Dianthus sp.

PN WO200102592-A2.

PD 11-JAN-2001.

PF 06-JUL-2000; 2000WO-US18364.

PR 06-JUL-1999; 99US-0348675.

PR 19-JUN-2000; 2000US-0597771.

PA (SENE-) SENESCO INC.

PI Thompson JE, Wang T, Lu DL;

DR WPI: 2001-061978/07.

P-PSDB: AAB66878.

PT Tomato, Arabidopsis and carnation cDNA clones encoding

PT senescence-induced deoxyhypusine synthase and eIF-5a, useful for
 PT inhibiting senescence in a plant when introduced in reverse orientation
 PT into the genome of the plant -

PS Claim 5; Fig 14; 135pp; English.

CC The present sequence is the coding sequence for carnation eukaryotic
 CC Initiation factor 5A (eIF-5A). The eIF-5A coding sequence, when
 CC introduced into a plant cell in reverse orientation, inhibits expression
 CC of the endogenous eIF-5A gene. The present sequence is useful for
 CC altering age-related senescence and/or environmental stress-related
 CC senescence, for inhibiting seed aging and for increasing seed yield in a
 CC plant. In addition, the inhibition of senescence in a plant results in
 CC increased resistance of the plant to environmental stress-induced and/or
 CC pathogen-induced senescence, increased plant biomass, delayed fruit
 CC softening and spoilage.

SQ Sequence 812 BP; 234 A; 152 C; 192 G; 234 T; 0 other;

Query Match 39.7%; Score 309.8; DB 22; Length 812;
 Best Local Similarity 76.5%; Pred. No. 2.1e-71;
 Matches 380; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

OY 29 cttagagaagaagcatgctcgaagaagaacacatttggtgtaaaaggcagatgctggtg 88
 DB 53 cgaataatcgacagatgctcgaagaagaacacatttggtgtaaaaggcagatgctggtg 112
 OY 89 cctcaaaaacttcccaagaagaagctggaacatcgtaagaatggtatcatcgtatca 148
 DB 113 catcaagaacttatccctcaacaagctgtacacatcgcaagacggtacatcgtatca 172
 OY 149 aagcgcttcctcgaagggttttgaggtctcacttcaaaaactggaagaaacacgagacatg 208
 DB 173 aaatcgcccttcgaagggtgttggttttctacatcccaagatggtgcaagcaggtcatg 232
 OY 209 cttaaatgtaactgttgcaattgacatttcaatggaagaagaactggaagatatacgttc 268

Db 233 ccaaatgctacttctgtgcatgacatttccaagcgcaagaagctggaagatattgtcc 292
Qy 269 cgcctccccaatgtgtgtgcccacatgttaaccgtgacagctataccaactatgtata 328
Db 293 cctcaatccacaatgtgtgtgttccacatgtcaaccggtgtcgaataccaactctgtata 352
Qy 329 tctctgaagatgtgttctgtcactcttactgaagaagtgtgaacccaagaagatgaactca 388
Db 353 tcaactgaagatgtgtgtgttagtctgtcgtactgacagtggtgtgacccaagaagatgactca 412
Qy 389 ggcctccccaatgtgaataatctgctgcaagcaggttaagaatgggttccaggaagaag 448
Db 413 agcttccctgtcatgtgagcgccctgtgaagcagatgaaaggaagatttgagcgcggaag 472
Qy 449 attctgtggtctgttactgtctgcgatggcgcaagcagacatgaacccaagatgaagtg 508
Db 473 actgtattctgtcgaagtcagtgtgtgcaatggtgaggaagcagatctgtgcgcgtaagagcg 532
Qy 509 ttgtaccagaagattag 525
Db 533 ttagtgtgtgcaagtag 549
RESULT 3
AAC39165
ID AAC39165 standard; DNA; 768 BP.
AC AAC39165;
XX 17-OCT-2000 (first entry)
DE Zea mays DNA fragment SEQ ID NO: 23616.
XX
KW Hybridization assay; genetic mapping; gene expression control;
KW Protein identification; signal transduction pathway; metabolic;
KW pathway; promoter; termination sequence; corn; ss.
XX
OS Zea mays subsp. mays.
XX
PN BP1033405-A2.
XX
PD 06-SEP-2000.
XX
XX 25-FEB-2000; 2000EP-0301439.
PF
XX 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.

PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
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PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
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PR 18-JUN-1999; 99US-0139456.
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PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140921.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
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PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
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PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
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PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.

PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
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PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 05-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 06-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
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PR 13-AUG-1999; 99US-0148565.
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PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
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PR 23-AUG-1999; 99US-0149936.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152563.
PR 10-SEP-1999; 99US-0153070.
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PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
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PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159283.
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PR 21-OCT-1999; 99US-0160770.
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PR 22-OCT-1999; 99US-0160981.
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PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.

PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 39.2%; Score 306; DB 21; Length 768;
Best Local Similarity 77.2%; Pred. No. 2e-70;

Matches 372; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 43 atgtcgagcgaagaaacacattttgagtcgaagcagatctgtgtcctcaaaacttc 102
DB 141 atgtcgagcgaagcagacacagcttcgagtcgaagcagcgcgcgcctcccaagactac 200
QY 103 ccacagcagcgtggaacatccgtaagatgtgtacatcgttacaagcgcctccag 162
DB 201 ccgcagcagcgcgcgcacatccgcgaagcagcgtacatcgttacaagcagctccctgc 260
QY 163 aaggtgttgaaggtccatccaactcaaaaactygaagaacagcagacatgctaattcatt 222
DB 261 aaggtgttgaaggtccatccaactccaagactygaagacatggtgacatcccaagtccactt 320
QY 223 gtgacattgacatttttaaatggaagaactggaagatactgtccgtccccaact 282
DB 321 gtgtgcatgacgttttcaacgtggaagaagcttgaagatatgttctccttctccaaac 380
QY 283 tgtgatgtgacacatgtttaacgtacgcactatacagctgatactatctgaagaatgt 342
DB 381 tgtgatgttccccatgttgcactgcagtatcagctgatactgacatccctgaagaatgga 440
QY 343 ttgtgtcactcttcaacgtgaagaagtcgaacacacaggaatgaactccagcgtccacgat 402
DB 441 ttgtgtgagccttttgacgtgacagctggaacactaagaatgaactcagctccagactgat 500
QY 403 gaaaatctgtcgaagcaggttaagaatgtgttccaggaagaagatcctgtgtgtct 462
DB 501 gaagcctctggaagcagacatcacatcagcagatatgtatgataaagaactccctccagcag 560
QY 463 gttatgtcgcgtgtggaagcagacatgaacgcgttgaagatgttgtgtacaaagt 522
DB 561 gtgatgtcttcacatgtggtggaagaacagatcgtcgttcaaggaatcgtggcgaagaac 620
QY 523 ta 524
DB 621 ta 622

RESULT 4

AAF32057 standard; cDNA; 702 BP.

AAF32057;

10-APR-2001 (first entry)

Arabidopsis eIF-5A coding sequence.

KW eIF-5A; eukaryotic initiation factor 5A; senescence inhibition; ss.

OS Arabidopsis SP.

PN WO200102592-A2.

PD 11-JAN-2001.

PF 06-JUL-2000; 2000WO-US18364.

XX 06-JUL-1999; 99US-0348675.

PR 19-JUN-2000; 2000US-0597771.

PA (SENE-) SENESCO INC.

XX Thompson JE, Wang T, Lu DL;
PI WPI; 2001-061978/07.
DR P-PSDB; AAB66879.
XX Tomato, Arabidopsis and carnation cDNA clones encoding
PT senescence-induced deoxyhypusine synthase and eIF-5a, useful for
PT inhibiting senescence in a plant when introduced in reverse orientation
PT into the genome of the plant -
XX
XX Claim 5; Fig 15; 135bp; English.
XX
XX The present sequence is the coding sequence for Arabidopsis eukaryotic
CC initiation factor 5A (eIF-5A). The eIF-5A coding sequence, when
CC introduced into a plant cell in reverse orientation, inhibits expression
CC of the endogenous eIF-5A gene. The present sequence is useful for
CC altering age-related senescence and/or environmental stress-related
CC senescence, for inhibiting seed aging and for increasing seed yield in a
CC plant. In addition, the inhibition of senescence in a plant results in
CC increased resistance of the plant to environmental stress-induced and/or
CC pathogen-induced senescence, increased plant biomass, delayed fruit
CC softening and spoilage.
XX
XX Sequence 702 BP; 186 A; 156 C; 141 G; 219 T; 0 other;

Query Match 38.3%; Score 298.6; DB 22; Length 702;
Best Local Similarity 77.8%; Pred. No. 1,7e-68;
Matches 374; Conservative 0; Mismatches 104; Indels 3; Gaps 1;

QY 39 aacgatcgcagacgaacaccattttagtcataagcgagatcgtgctcccaaac 98
DB 52 aacacatgcgcagagagacacacactttagtgcga--gtgacgcgcgagcgtcccaaac 108
QY 99 ttcccacagcagcctgcgaacacatcgtgaagaatgtgtacatcgttcaaaagcgctcc 158
DB 109 ctaccgccacaacagcgcgaacacatcgtgaagaatgtgtacatcgttcaaaagcgctcc 168
QY 159 ctgcaaggtgtgtgaggtgtcctcactcaaaactggaagaacagcagatcgttaaatgtca 218
DB 169 ctgcaaggtgtgtgaggtgtcctcactcaaaactggaagaacagcagatcgttaaatgtca 228
QY 219 cttgtgcgaatgcacatttcaatgcgaagaactgcgaagatacgttccgtcccca 278
DB 229 ttgttagctattgatatcttcacccagcaagaactgcgaagatacgttccgtcccca 288
QY 279 caattgtgattggtccacatgtaacgcgcacatcagctgattgatatcctcgaaga 338
DB 289 caattgtgattggtccacatgtaacgcgcacatcagctgattgatatcctcgaaga 348
QY 339 tggttctgctcactctactcgaagaactgcgaagaacacacagcagcgtctccca 398
DB 349 tggatagtcagcttgtgtgacgatacgtgatacgaagatgacttaagctccctaa 408
QY 399 cgaatgaaatcgtcgaagaacgattaaagatggtgtccaggaagaagaatcttgggt 458
DB 409 tgaagacacctgcgtcccaacacatcagaatggtgttgaatgaagaagaatcagtggt 468
QY 459 gtcctgtaatgctgcgaatgcgcgaagaacacatcagcccttaagaatgtgtaccaa 518
DB 469 gagtgttaatgctgcgaatgcgcgaagaacacatcagcccttaagaatgctgtccaa 528
QY 519 g 519
DB 529 g 529

RESULT 5
AAC46522
ID AAC46522 standard; DNA; 868 BP.
XX
AC AAC46522;

XX 18-OCT-2000 (first entry)
DT Zea mays DNA fragment SEQ ID NO: 50448.
XX
DE
XX Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway; metabolic;
KW pathway; promoter; termination sequence; corn; ss.
XX
OS Zea mays subsp. mays.
XX
XX EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
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PR 17-JUN-1999; 99US-0139492.
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Query Match 38.1%; Score 297.4; DB 21; Length 868;
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QY 112 gctggaaccatcgtgaagaatggtacatcgtaaccaagccgtccctcgaaggtgtt 171
DB 170 gctggaaccgtcgtgaagaacgctcatcgtaaccaagaccgtccctcgaaggtgtg 229
QY 172 gaggtctccactcaaaacatgnaaacacgacatgtaatgtaacttgtggaatt 231
DB 230 gaggtctccactcaaaacatgnaaacacgacatgtaatgtaacttgtggaatt 289
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DB 290 gacatttcaatgnaaanaactgnaagatatacgttcctccatcaacaacttgcacatt 349
QY 292 ccaatgttaacgtaacgactatcacgtatgatatctcctgnaagatgtttgtccta 351

Db 350 cccgcatgtaaccgtactactagatctacgctgatgatattcttcgagatgatgttgagc 409
Oy 352 ctctctactgaaagtgaaccaccagaagatgacctcaccacgataaactgt 411
Db 410 ctctctactcactgacacactaagatgatcttaagctcccaactgatgactctt 469
Oy 412 ctgaagcaggttaagaatggttcacgagaagatctgtgtctgttatgtct 471
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RESULT 6
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ID AAC43089 standard; DNA; 477 BP.
XX
AC AAC43089;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 37988.
XX
KW Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
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XX
PD 06-SEP-2000.
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PR 29-OCT-1999;	99US-0162142.			
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Best Local Similarity	77.8%;	Pred. No. 6.3e-68;		
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103 ccacagcaagctcggaaccaccctccgtaagaaatgggttaacatcgctatcaaaagccgtccg	162			
58 cctcaacaagctcggaaccctccgtaagaaatgggttaacatcgctatcaaaatcgctccg	117			
163 aaggttgttgaagctccatctcaaaactgtgaaacaacggaacgtaactgtaatgtaactt	222			
118 aaggttgttgaagctccatctcaaaactgtgaaacgtaactgtaactgtaatgtaactt	177			
223 gttgacattgaactttctgaatgtgaaagaaactgtgaaatgatactgtccgtccctccacat	282			
178 gtagcattgatactctcccgcaagaactcgaagatattgttctctctccacat	237			
283 tttgattgtccacatgttaccgttaaccgttaaccgttaaccgttaaccgttaaccgttaaccgt	342			
238 tttgattgtccacatgttaccgttaaccgttaaccgttaaccgttaaccgttaaccgttaaccgt	297			
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298 tttgattgtccacatgttaccgttaaccgttaaccgttaaccgttaaccgttaaccgttaaccgt	357			
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358 gaaactctgtcgaagcaggtttaaagattgttccgaagaaagagatcttgtgtgtgtct	417			
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AC AAC34096;				
DT 17-OCT-2000 (first entry)				
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XX Hybridisation assay; genetic mapping; gene expression control;				
KW protein identification; signal transduction pathway;				
KW metabolic pathway; promoter; termination sequence; ss.				
XX Arabidopsis thaliana.				
OS Arabidopsis thaliana.				
PN EP1033405-A2.				
XX 06-SEP-2000.				
PD 25-FEB-2000; 2000EP-0301439.				
XX 25-FEB-1999; 99US-0121825.				
XX 05-MAR-1999; 99US-0123180.				
PR 09-MAR-1999; 99US-0123548.				
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DB 425 tggctcgtgacgtcttccactgcactgcagtggtgcacaaagatgactcaagcttccac 484
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Matches 371; Conservative 0; Mismatches 119; Indels 3; Gaps 1;

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DB 426 aaacatgtctgcagcagcagacacacttgcaggcca---gcgaatcggagattccaaagac 482
QY 99 ttcccaagcaagctcgtgaacacatccgtaagaatggtttacatcgtttcaaaagcgctcc 158
DB 483 ctatccccaatcagcgcgttaacatccgtaaggtgtgtcacatcgttcacaaacgcgtcc 542
QY 159 ctgcgaaggtgtgtgaggttccacattcaaaacttgaaacacgacacatgcttaattgca 218
DB 543 ctgcgaaggtgtgtgaggttccacattcaaaactgcgaagcagcaggttcacgccaattgca 602
QY 219 cttgtgtgcaattgacatttcaatggaagaagaactggaagatatacgttcgcgtcccca 278
DB 603 cttgtgtgcatatgatacttcatcgtctaagaagcttgaagatattgttccattcccca 662
QY 279 caattgtgagtgcacacatgtaaacggtacgcgacatacgtcgtattgtatctctcgaga 338

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Db 663 caattgtagatctccacatgtagacgcgtgtgttaaccaggttcgatatcatcagagga 722
OY 339 tggatttgcactcttactgaagaatggaacacacgaatgaactcaggtccac 398
Db 723 tgcctcgtgagcctctcactcagcagtggtgacacagatgattcctaagctccac 782
OY 399 cgaftaanaatctgtcgaaggttaagaatggtcccggaagaagaactctgtgt 458
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OY 459 gtcgttatgtctgcagatggcgagagacagatlaacgcgcgttaagaatgtgtgtaccaa 518
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OY 519 gaattagttatgt 531
Db 903 caagtaacaagct 915

RESULT 12
AAA31536
ID AAA31536 standard; DNA; 415 BP.
XX
AC AAA31536;
XX
DT 05-JUL-2000 (first entry)
XX
DE Plant microsatellite marker #497.
XX
KW Plant microsatellite sequence; core repeat sequence; detection; probe;
KW DNA polymorphism; genome mapping; physical mapping; fingerprinting;
KW variety identification; genetic variability evaluation; primer; ss.
XX
OS Eucalyptus grandis.
XX
PN WO9967421-A1.
XX
PD 29-DEC-1999.
XX
PF 25-JUN-1999; 99MO-NZ00092.
XX
PR 25-JUN-1998; 98US-0105307.
XX
PA (GENE-) GENESIS RES & DEV CORP LTD & FLETCHER.
PA (FLET-) FLETCHER CHALLENGE FORESTS LTD.
XX
PI Havukkala IJ, Bloksberg LN, Glenn M;
XX
DR WPI: 2000-116958/10.
XX
DE New plant microsatellite markers and associated flanking species for
PT the detection of polymorphic genetic markers -
XX
PS Claim 1; Page 223; 392pp; English.
XX
CC Sequences AAA31040-A32093 represent novel plant microsatellite sequences
CC and associated flanking species. The sequences comprise a central core
CC repeat sequence, especially selected from the sequences AAA32094-A32096
CC with left and right flanking sequences. The polynucleotide sequences
CC can be used in the detection of DNA polymorphisms, in genome mapping,
CC in physical mapping, in positional cloning of genes, in variety
CC identification and in evaluation of genetic variability within and
CC between plant tissues, populations, cultivars, species and species
CC groups. They may also be used to design hybridization probes for
CC oligonucleotide fingerprinting and library screening and to design
CC primers for microsatellite-primed PCR. Microsatellite markers are
CC useful to locate specific economically useful genes in plant genomes.
XX
SO Sequence 415 BP; 120 A; 95 C; 104 G; 96 T; 0 other;

Query Match 35.3%; Score 275.2; DB 21; Length 415;

Best Local Similarity 81.7%; Pred. No. 1.9e-62;
Matches 330; Conservative 0; Mismatches 73; Indels 1; Gaps 1;
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Db 10 agagagagagagatgctgcagcaggaacacacattcgcagtcgaagcgcagcggcgcg 69
OY 91 tcaaaaacttcccaacagcaagctggaacacatccgtaagaatggttaacatcgattcaaa 150
Db 70 tccaacagctlaaccgcagcagcgcgcacatccgcagaatggtctacatcgtcaaaa 129
OY 151 ggcgcgtccctgcaaggttctggaagttccacattcacaacatggaacacagacatgt 210
Db 130 gaatgcgccctgcgaagttgttaaaagtttccaacaaaactgcaaacacagacatgt 189
OY 211 aaatgcactttgtggaactttgacatttcaatggaagaagaactggaatatcggtccg 270
Db 190 aagtgccacttcgtgggattgatatctcaattggaagaagaacttgaatatgttcct 249
OY 271 tccctccacaattgtgattgacatgtaaccgttaaccgtacacatacgtatgattatc 330
Db 250 tctgtccacaactgtagatttccctcatgtaacatgcacatgacatcatatgattatc 309
OY 331 tctgaagatggtttgtctcactctctactcgaagatggaacacacagatgacctcagg 390
Db 310 tctgaagatggtttgtctcactcttctgaatgaatggaacacacagatgacctcagg 369
OY 391 ctccacacgatgaataatctgtgaagcaggttaagaatggtt 434
Db 370 -ttccacacgatgacagctgtccttaagcagattaaagatggtt 412

RESULT 13
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XX
AC AAC39781;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 25879.
XX
KW Hybridisation assay; genetic mapping; gene expression control;
KW Protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
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PD 06-SEP-2000.
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KW pathway; promoter; termination sequence; corn; ss.
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